

**APPLIED
PHYSICS
SPECIALTIES
LIMITED**

**27 PRINCE ANDREW PLACE
DON MILLS, ONTARIO**

THE COMPANY

Applied Physics Specialties Limited is a new company founded on many years of experience by its key staff members in the fields of precision optical and instrument manufacture. In addition to the production of specialized optical elements, capabilities include the adjustment and repair of mechanical and optical instruments and the manufacture of items requiring unusual techniques in allied scientific fields.

THE STAFF

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| J. D. BAIN | Formerly: Technical Manager, Instrument and Electronics Division, Canadian Arsenals Limited (17 years); Radar Engineer, Research Enterprises Limited (5 years). |
| T. H. BRIDGE | Formerly: General Foreman, Instrument and Optical Shops, Canadian Arsenals Limited (17 years); Foreman, Optical Assembly Shop, Research Enterprises Limited (5 years); Machinist, Canadian Acme Screw and Gear Limited (7 years). |
| A. H. BROWN | Formerly: Chief Optical Inspector and Supervisor of lens repair and calibration services and all photographic procedures, Canadian Arsenals Limited (17 years); In charge of Optical and Instrument Inspection, Research Enterprises Limited (5 years). |
| A. FLEJBERK | Formerly with C. P. Goertz, C. Reichert, Wild-Heerbrugg and E. R. Watts & Son; General Foreman, Optical Shops, Research Enterprises Limited (5 years); Over 20 years experience in the manufacture of precise optical elements. |
| H. W. MATTHEWS | Formerly: Process Engineering Section, Canadian Arsenals Limited (17 years) in charge of Reticule manufacture, including vacuum coating, photo-etching, engraving and glass-to-metal bonding; Foreman, Instrument Control Section, Research Enterprises Limited (5 years). |

EQUIPMENT AND PROCESSES

GLASS GRINDING AND POLISHING

- Blanchard Surface Grinder
- Grand Rapids Grinder (Glass Saw)
- Elgin Radius Generator
- Technaphot Radius Generator
- 35 Grinding and Polishing Spindles for work of all sizes up to 16-inch diameter
- Radius Tooling and Test Glasses for over 150 stock radii

VACUUM COATING

- Two 18-inch Bell Jars for vacuum deposition of metal and dielectric coatings

SPECIAL PHOTOGRAPHIC PROCESSES

- Precision Photography and Microphotography
- Photoetching and Photo-mechanical processes as used in Reticle manufacture

MACHINE TOOLS

- Monarch 10-inch Toolroom Lathe
- Stark Precision 9-inch Bench Lathe
- Milwaukee No. 2 Plain Milling Machine
- Hardinge Horizontal Milling Machine with Bridgeport Head
- Supporting equipment of both general and specialized nature

TEST AND CALIBRATION

- Carl Zeiss Large Toolmaker's Microscope
- Master Circular Testing Scale
- Nodal Slide Lens Test Bench
- "T"-stop Calibration Bench
- Precision Collimators up to 36-inch focal length

PRODUCTS AND SERVICES

LENSES • PRISMS • WINDOWS • MIRRORS
ASPHERICS • OPTICAL FLATS
VACUUM COATING • PRECISION PHOTOGRAPHY
PRECISION ETCHING • RETICLES
CAMERA AND TV LENS REPAIR AND CALIBRATION
OPTICAL INSTRUMENT AND CAMERA REPAIR
CUSTOM INSTRUMENT MANUFACTURE

Of special interest to Television Stations and Cinematographers is the fact that for a number of years our staff has been providing a repair and maintenance service on all types of standard and zoom lenses for television and professional movie cameras. This service includes cleaning, adjustment, calibration and repair. When factory specifications are available, as in the case of all Rank Taylor

Hobson lenses, work is performed in accordance with the manufacturer's standards and procedures.

APPLIED PHYSICS SPECIALTIES LIMITED

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